Chronic Wasting Disease (CWD)



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Presentation Roadmap

- > CWD
 - Background
 - History in Michigan
 - > Next Steps

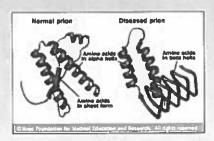


CWD: Background

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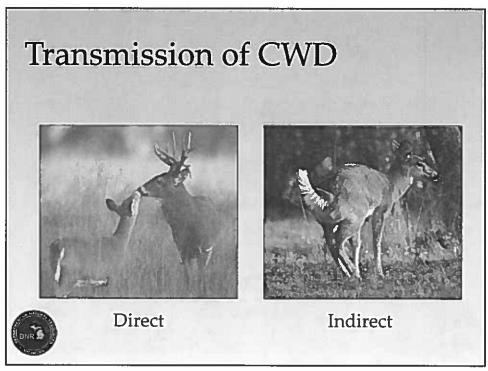
CWD: The Basics

- A disease of cervids (i.e. deer-like species, such as whitetailed deer, mule deer, elk, moose, and caribou)
- CWD is caused by a misfolded protein called a prion





Kansas Department of Wildlife. Parks & Tourism





CWD: The Basics

- > There is no:
 - > Valid live animal test,
 - > Vaccine, or
 - > Treatment

(yet)







Photos: Wisconsin Department of Natural Resources

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Clinical Signs of CWD

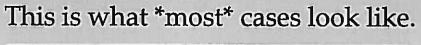
- > Emaciation
- Lack of coordination
- Drooping head/ears
- Excessive drooling
- Excessive drinking
- > Excessive urination
- Dull or ragged hair



Photo: Arkansas Game and Fish Commission

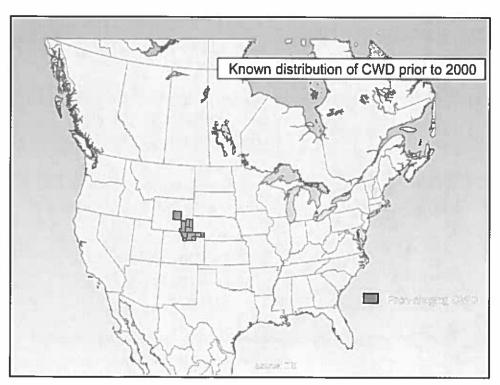


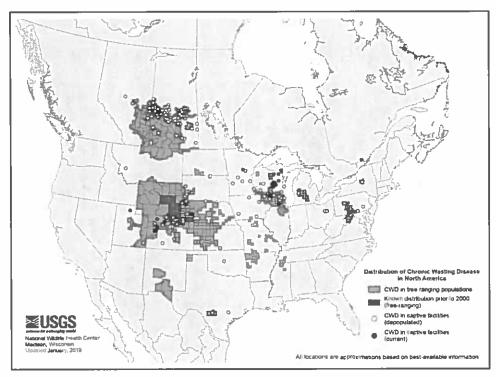
<u>Prolonged incubation period: average of 18 months</u>
What does this mean??





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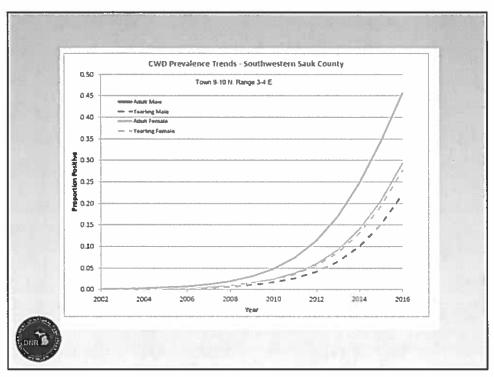
Transmission of CWD

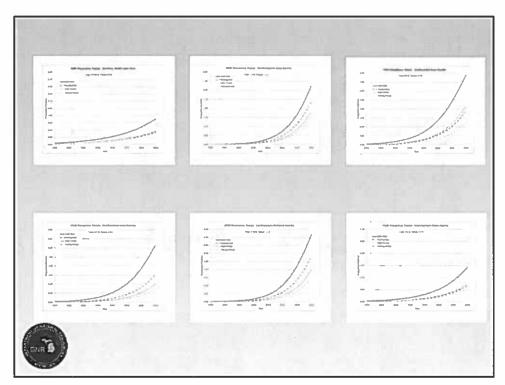


- CWD is transmitted from deer to deer and can persist in environment
- CWD moves across the landscape through the movement of deer
- Rate of spread is affected by the number of infected deer
 - Need to find it as early as possible!

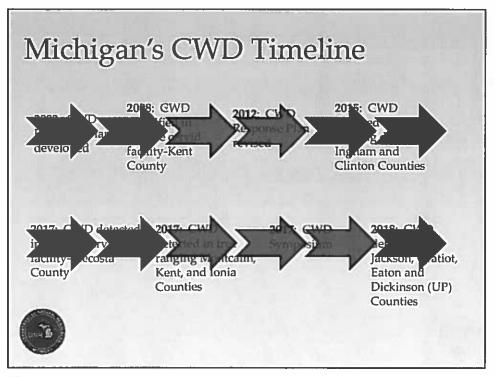


Once established, CWD will increase in prevalence and geographic spread





CWD: History in Michigan



CWD Surveillance Prior to 2015

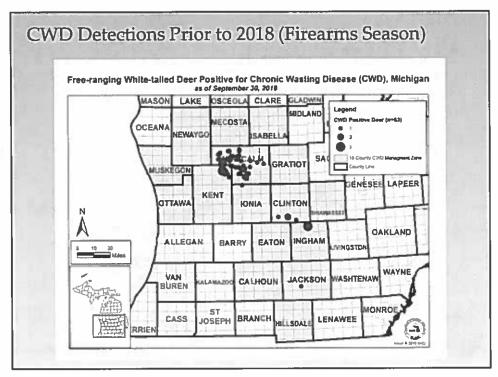
- > 2002-Statewide surveillance began
- 2008 to 2011-Additional surveillance around positive Privately-Owned Cervidae (POC) facility
- > 2011-Shifted focus to targeted animals
- 2015-First case of CWD detected in free ranging deer
- Animals tested:
 - > 34,000 deer
 - 1,600 elk
 - 70 moose

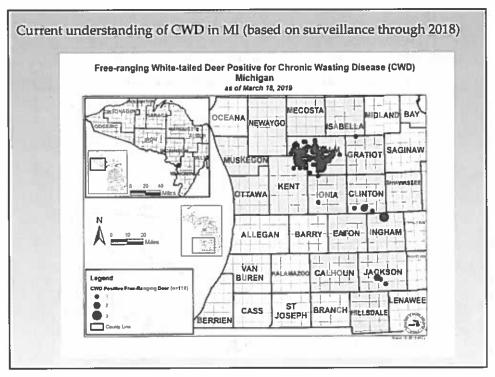


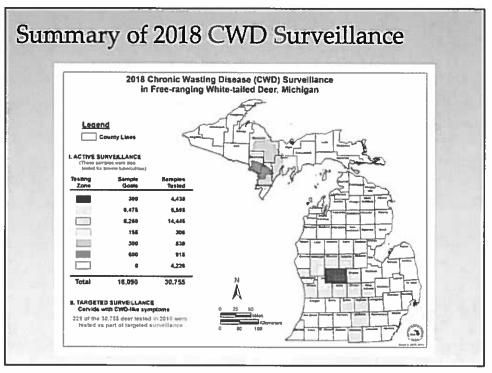


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CWD: Next Steps

- DNR is committed to surveillance, management and research of CWD
- Support for these actions by Michigan's public is necessary for long-term success
- Surveillance is not management:
 Without public support, disease
 spread and prevalence are likely to accelerate



For more information: www.mi.gov/CWD



FY 2020 Proposed Investment: Protect Wildlife and Public Health



- Objective: Fight the emergence of chronic wasting disease by:
 - Researching the transmission, spread, and prevention of the disease
 - Covering laboratory costs to test deer for the disease and provide test results
- Investment: \$2.3 million General Fund
 - \$2.0 million one-time for research
 - \$0.3 million ongoing for testing

